

What is claimed is:

1. A radio reception apparatus comprising:
 - a reception section that receives a signal on a per
5 processing unit basis, said processing unit including
a known signal pattern;
 - an adjusting section that adjusts a filter for
filtering the received signal using the known signal
pattern in the processing unit; and
 - 10 a canceling section that cancels an interference
component in the processing unit using the adjusted
filter.
2. The radio reception apparatus according to claim
15 1, wherein the adjusting section includes:
 - a modulation scheme determining section that
determines a modulation scheme on a per said processing
unit basis using the known signal pattern; and
 - a tap coefficient control section that controls tap
20 coefficients to set to the filter according to the
determined modulation scheme.
3. The radio reception apparatus according to claim
1, wherein the adjusting section includes:
 - 25 a frequency conversion section that performs a
frequency analysis of the received signal; and
 - an interference level detecting section that

detects adjacent channel interference from a result of the frequency analysis and determines tap coefficients to set to the filter according to the detection result.

- 5 4. The radio reception apparatus according to claim 1, wherein the adjusting section includes:

an error measuring section that measures an error of the received signal that occurs due to a transmission path characteristic on a per said processing unit basis
10 using the known signal pattern; and

a tap coefficient control section that controls tap coefficients to set to the filter based on the measured error and a reception level of the received signal.

- 15 5. The radio reception apparatus according to claim 1, wherein the canceling section includes a plurality of filters having different filter characteristics; and wherein the adjusting section includes:

a modulation scheme determining section that
20 determines the modulation scheme on a per said processing unit basis using the known signal pattern; and

a filter selection section that selects one of the plurality of filters according to the determined modulation scheme.

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6. The radio reception apparatus according to claim 1, wherein the canceling section cancels adjacent channel

interference or inter-symbol interference.

7. The radio reception apparatus according to claim
1, wherein the adjusting section adjusts a filter
5 characteristic of the filter in such a way that a combined
characteristic of said filter with a baseband filter at
a communicating partner station has a Nyquist
characteristic.

10 8. A communication terminal apparatus having the radio
reception apparatus recited in claim 1.

9. A base station apparatus having the radio reception
apparatus recited in claim 1.

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10. A reception filtering method comprising the steps
of:

receiving a signal on a per processing unit basis,
said processing unit including a known signal pattern;

20 adjusting a filter for filtering the received signal
using the known signal pattern in the processing unit;
and

canceling an interference component in the
processing unit using the adjusted filter.